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TI High-strength cement composition

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SO Jpn. Kokai Tokkyo Koho, 5 pp.

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DT Patent

LA Japanese

IC ICM C04B028-02

ICI C04B028-02, C04B022-06, C04B024-22

CC 58-3 (Cement, Concrete, and Related Building Materials)

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61178462	A2	19860811	JP 1985-19292	19850205
PRAI	JP 1985-19292			19850205	

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP	61178462	ICM	C04B028-02
		ICI	C04B028-02, C04B022-06, C04B024-22
		IPCI	C04B0028-02 [ICM, 4]; C04B0028-02 [ICI, 4]; C04B0022-06 [ICI, 4]; C04B0024-22 [ICI, 4]

AB In a high-strength cement composition containing cement, ultrafine powder, high-performance water-reducing agent, and water, crushed opal-based siliceous rock, blast-furnace slag, or fly ash is used as the ultrafine powder and this reduces the shrinkage during its hardening. Thus, a test piece manufactured from a raw mix containing cement 80, fly ash (mean particle size  $3.04\mu$ ) 20, sand 120, high-performance water-reducing agent 2, and water  $\geq 1$  weight parts had compressive strength 1423 kg/cm<sup>2</sup> and hardening shrinkage 1.4%.

ST fly ash mortar hardening shrinkage; blast furnace slag mortar hardening shrinkage; silica powder mortar hardening shrinkage

IT Ashes (residues)  
(coal fly, mortar from cement and, with low hardening shrinkage)

IT Mortar  
(from cement with fly ash or siliceous rock or blast-furnace slag, with low hardening shrinkage)

IT Slags  
(blast-furnace, mortar from cement and, with low hardening shrinkage)

IT 7631-86-9, Silica, uses and miscellaneous

RL: USES (Uses)  
(powder, mortar from cement and, with low hardening shrinkage)

*Cement (3.04 mm mean particle size)*  
- cement  
- fly ash  
- water reducing agt  
- water